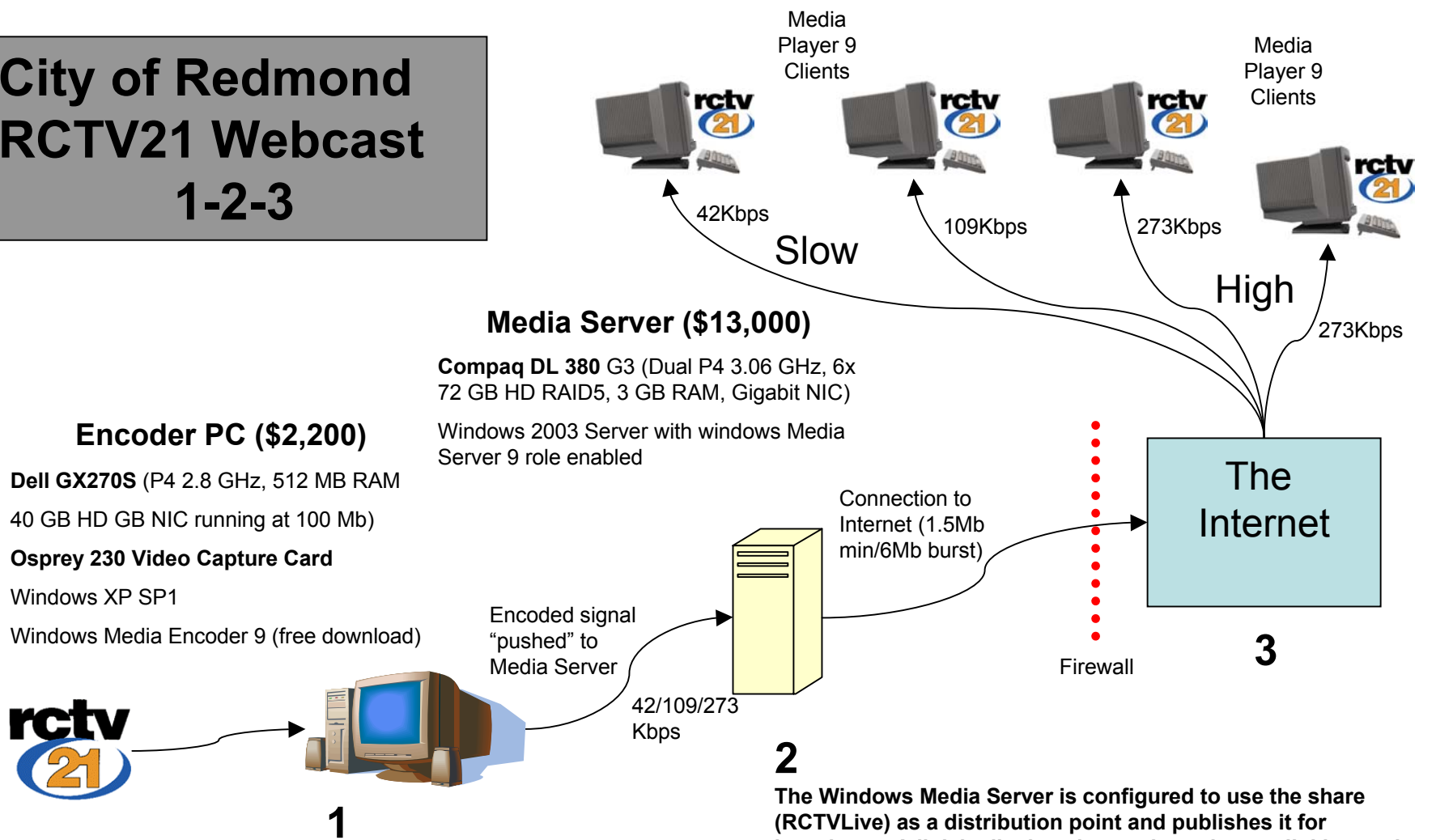
City of Redmond RCTV21 Webcast 1-2-3



Setup encoder PC with Windows XP SP1 and video capture card. Currently this capture card receives a live audio/video feed directly from RCTV (Redmond's Community broadcast station). Using Windows Media Encoder 9 the input stream is encoded into a variable bit rate. In order to serve "viewers" with different bandwidth connections to the Internet the signal is encoded into 3 streams of differing resolutions. These are; 42Kbps, 109Kbps and 273Kbps. The signal is then "pushed" to a share (in our case called RCTVLive) on the Windows Media Server machine where it is available for broadcast over the Internet.

The Windows Media Server is configured to use the share (RCTVLive) as a distribution point and publishes it for broadcast. A link is displayed on a city web page linking to the url mms://rctv.redmond.gov/RCTVLive. When a visitor clicks on the link it causes the Windows Media Player on the person's PC to make a request for the video stream to the media server. The server and the PC negotiate an acceptable streaming bit rate (based on the speed of the network connection) and the user sees and hears the video on their PC.

Notes:
City of Redmond is currently streaming the Live TV signal over the Internet.
There is not much human intervention once this has been set up.
We plan to start archiving material and have it available to the public.
Our Connection to the Internet is 1.5Mb minimum with 6Mb burst.
The load on the streaming server is minimal (<3% at peak time)